

Amendment to IMPELLER AND METHOD OF MANUFACTURING SAME  
Reuel S. Orocio, inventor  
Serial No. 10/047,865  
Filed January 15, 2002  
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In the Claims:

*RE Not Entered* Claims 1-5 (canceled)

*Part B1*  
*A4*  
~~Claim 1.(original) A method of manufacturing a pump  
impeller comprising:~~

~~forming in a single molding operation a shroud, vanes  
and shaft sleeve so as to precisely obtain alignment of an axis of  
rotation of said sleeve with a longitudinal center axis of an  
annular inlet ring mounted on said shroud where said annular inlet  
ring and said sleeve are on opposite sides of said shroud, whereby  
during rotation of said impeller smooth, efficient substantially  
noise-free operation is obtained because said sleeve is in balance  
with said annular inlet ring.~~

Claim 2.(original) A pump impeller comprising:

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P.B.  
a series of vanes having an outer end which is integrally mounted on a shroud, said shroud having a centrally located annular inlet ring which provides an inlet to an eye of said impeller; and

a hub integrally connected to an inner end of said vanes, said hub having a sleeve connected thereto, said sleeve having an axis of rotation, said inlet having a longitudinal center axis, said axis of rotation being aligned with said longitudinal center axis, whereby rotation of said impeller produces essentially no vibration with said impeller rotating smoothly, efficiently and substantially noise-free.

Claim 3 (currently amended) A pump impeller comprising:  
a series of vanes having an outer end which is  
integrally mounted on a shroud, said shroud having a centrally  
located annular inlet ring which provides an inlet to an eye of  
said impeller;

A4 a hub integrally connected to an inner end of said  
vanes, said hub having a sleeve connected thereto, said sleeve  
having an axis of rotation, said inlet having a longitudinal  
center axis, said axis of rotation being aligned with said  
longitudinal center axis, whereby rotation of said impeller  
produces essentially no vibration with said impeller rotating  
smoothly, efficiently and substantially noise-free; and

~~The pump impeller as defined in Claim 2 wherein:~~

~~a cover mounted on said hub covering said vanes, said~~  
~~cover being located opposite said shroud relative to said vanes~~  
~~substantially enclosing said vanes.~~

Claim 4.(original) The pump impeller as defined in  
Claim 2 wherein:

said sleeve located on one side of said vanes and said  
shroud being located on the opposite side of said vanes.

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Claim 5<sup>^</sup>(original) The pump impeller as defined in  
Claim 4 wherein:

said sleeve being at least one inch in length.

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Claim 6.(currently amended) The pump impeller as  
defined in Claim 2 wherein:

said inlet being larger in size than said hub, whereby  
because said inlet ~~being~~ is larger than said hub, said pump  
impeller can be manufactured in a single molding operation.

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